As a below named inventor, I hereby declare that: This declaration is of the following type: original [X]divisional continuation continuation-in-part [] INVENTORSHIP IDENTIFICATION My residence, post office address and citizenship are as stated below next to my name. I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: TITLE OF INVENTION Low-Resistivity Tungsten from High-Pressure Chemical Vapor Deposition Using Metal-Organic Precursors SPECIFICATION IDENTIFICATION The specification of which: is attached hereto X ____, under Serial No. _____, executed on even date herewith; was filed on or [] Express Mail No.(as Serial No. not yet known) and was amended on ______ (if applicable) was described and claimed in PCT International Application No. ______ filed on and as amended under PCT Article 19 on ______ ACKNOWLEDGMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose all information I know to be material to patentability in accordance with Title 37, Code of Federal Regulations, 1.56, and which is material to the examination of this application; namely, information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent, and

In compliance with this duty there is attached an Information Disclosure Statement in accordance with 37 CFR 1.98.

PRIORITY CLAIM (35 U.S.C. §119)

I hereby claim foreign priority benefits under Title 35, United States Code, §119, of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America or of any United States Provisional Application(s) listed below, and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s)

| • | | | | |
|---|--|--|--|---|
| designat having a | ing at least one filing date befor | country other than the Unre that of the application(s) | nited States of America fit of which priority is claim | led by me on the same subject matter ed. |
| | [] Such a | th applications have been fi pplications have been filed | l as follows: | |
| A. | Prior foreign/l | PCT/provisional applicat ad any priority claims unc | ion(s) filed within 12 m | os. (6 mos. for design) prior to this |
| | Country/PCT | Application No | Date Filed | Priority Claimed |
| В. | All foreign apapplication | pplication(s), if any, file | d more than 12 mos. (| 6 mos for design) prior to this U.S. |
| | Country: Application No Filing date: | o: | | |
| | | PRIORIT | Y CLAIM (35 U.S.C. §12 | 20) |
| interna subjec manne inform likelih | ational application to matter of each provided by the nation that is mandood that a reaso as a patent) who | on(s) designating the Onto of the claims of this apple ne first paragraph of Title terial to the examination of | plication is not disclosed 35, United States Code, of this application (namel | any United States application(s) or PCT it is/are listed below and, insofar as the in that/those prior application(s) in the 112, I acknowledge the duty to disclose y, information where there is substantial iding whether to allow the application to application(s) and the national or PCT |
| | [<u>X</u>] No s | such applications have been finapplications have been finapplications have been finapplications. | n filed led, as follows: | |
| | Serial No. | Filing Date | Sta Patented Pending | Abandoned Abandoned |
| | | PO | WER OF ATTORNEY | |
| I her Pater | eby appoint the and Trademark | following attorneys and/or COffice connected therewi | agents to prosecute this ath: | application and transact all business in the |
| | Doi Lav Mi Jos | er J. Sgarbossa nald Verplancken wrence Edelman chael B. Einschlag seph Bach ymond Kam-On Kwong | Registration No. 25 Registration No. 33 Registration No. 25 Registration No. 29 Registration No. 37 Registration No. 37 | ,217 ,226 ,301 ,771 |

Registration No. 35,412 Registration No. 25,436

Raymond Kam-On Kwong

James C. Wilson Robert W. Mulcahy

Registration No. 44,713 Registration No. 35,423

Send correspondence to:

Direct telephone calls to:

Patent Counsel, MS/2061 Legal Affairs Dept. Applied Materials, Inc. POBox 450A Santa Clara, CA 95052 Benjamin Aaron Adler 713/270-5391

DECLARATION

| Full name of sole or firs | t inventor: Sean Michael Seutter | |
|---------------------------------|--|--------------------------------|
| Inventoria signatura: | Sur loss CA 05123 | Date: |
| Residence: Post Office Address: | San Jose, CA 95133 629 Harrisburg Place San Jose, CA 95133 U.S.A. | Country of Citizenship: U.S.A. |
| Full name of second inv | entor: Seshadri Ganguli | |
| Inventor's signature: | | Date: |
| Residence: Post Office Address: | Sunnyvale, CA 94086 713 Golden Oak Drive, #7 Sunnyvale, CA 94086 U.S.A. | Country of Citizenship: India |
| Full name of third inve | ntor: Mei Chang | |
| Inventor's signature: | | Date: |
| Residence: Post Office Address: | Saratoga, CA 95070 12881 Corte de Arguello Saratoga, CA 95070 U.S.A. | Country of Citizenship: U.S.A. |

| Full name of fourth inv | ventor: Michael X. Yang | |
|------------------------------------|--|--|
| Inventor's signature: | | Date: |
| Residence: Post Office Address: | Palo Alto, CA 94306 783 Cereza Drive Palo Alto, CA 94306 U.S.A. | Country of Citizenship: People's Republic of China |
| Full name of fifth inver | ntor: Ming Xi | |
| Inventor's signature: | | Date: |
| Residence: Post Office Address: | Milpitas, CA 95035 138 Beaumere Way Malpitas, CA 95035 U.S.A. | Country of Citizenship: People's Republic of China |

As a below named inventor, I hereby declare that: This declaration is of the following type: original [X] divisional continuation continuation-in-part [] INVENTORSHIP IDENTIFICATION My residence, post office address and citizenship are as stated below next to my name. I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: TITLE OF INVENTION Low-Resistivity Tungsten from High-Pressure Chemical Vapor Deposition Using Metal-Organic Precursors SPECIFICATION IDENTIFICATION The specification of which: is attached hereto __, under Serial No. ______, executed on even date herewith; M was filed on or [] Express Mail No.(as Serial No. not yet known) and was amended on ______ [] (if applicable) was described and claimed in PCT International Application No. ______ filed on and as amended under PCT Article 19 on ______. ACKNOWLEDGMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose all information I know to be material to patentability in accordance with Title 37,

Code of Federal Regulations, 1.56, and which is material to the examination of this application; namely, information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent, and

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| designa having | ating at l | east one country other than the United States of America filed by me on the same subject matter date before that of the application(s) of which priority is claimed. |
|-------------------|-----------------|--|
| | [X] | No such applications have been filed. Such applications have been filed as follows: |
| A. | Prior applic | foreign/PCT/provisional application(s) filed within 12 mos. (6 mos. for design) prior to this eation, and any priority claims under 35 U.S.C. § 119 |

Country/PCT Application No Date Filed Priority Claimed
| Yes | No | Yes | No

B. All foreign application(s), if any, filed more than 12 mos. (6 mos for design) prior to this U.S. application

Country:
Application No:
Filing date:

PRIORITY CLAIM (35 U.S.C. §120)

I hereby claim the benefit under Title 35, United States Code, § 120, of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, 112, I acknowledge the duty to disclose information that is material to the examination of this application (namely, information where there is substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application.

| [<u>X</u>] | No such applications have been fi | n filed led, as follows: | |
|--------------|-----------------------------------|-----------------------------|-----------|
| | | Status | s |
| Serial N | No. Filing Date | Patented Pending | Abandoned |

POWER OF ATTORNEY

I hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

| Peter J. Sgarbossa Donald Verplancken Lawrence Edelman Michael B. Einschlag Joseph Bach Raymond Kam-On Kwong James C. Wilson Robert W. Mulcahy | Registration No. 25,610 Registration No. 33,217 Registration No. 25,226 Registration No. 29,301 Registration No. 37,771 Registration No. 37,165 Registration No. 35,412 Registration No. 25,436 |
|--|--|
|--|--|

Registration No. 44,713 Registration No. 35,423

Send correspondence to:

Direct telephone calls to:

Patent Counsel, MS/2061 Legal Affairs Dept. Applied Materials, Inc. POBox 450A Santa Clara, CA 95052 Benjamin Aaron Adler 713/270-5391

DECLARATION

| Full name of sole or firs | st inventor: Sean Michael Seutter | |
|---|--|--------------------------------|
| Lauratorio gianature: | | Date: |
| Inventor's signature: Residence: Post Office Address: | San Jose, CA 95133 629 Harrisburg Place San Jose, CA 95133 U.S.A. | Country of Citizenship: U.S.A. |
| Full name of second in Inventor's signature: | $d - 1 \sqrt{1}$ | Date: 05 05 2 00 |
| Residence: Post Office Address: | Sunnyvale, CA 94086 713 Golden Oak Drive, #7 Sunnyvale, CA 94086 U.S.A. | Country of Citizenship: India |
| Full name of third inv | entor: Mei Chang | |
| Inventor's signature: | | Date: |
| Residence: Post Office Address: | Saratoga, CA 95070 12881 Corte de Arguello Saratoga, CA 95070 U.S.A. | Country of Citizenship: U.S.A. |

| Inventor's signature: | | Date: |
|---|--|--|
| Residence: Post Office Address: | Palo Alto, CA 94306 783 Cereza Drive Palo Alto, CA 94306 U.S.A. | Country of Citizenship: People's Republic of China |
| Full name of fifth inventor's signature: | ntor: Ming Xi | Date: |
| Residence: Post Office Address: | Milpitas, CA 95035 | Country of Citizenship: People's Republic of China |

| | COMDINED DECEMBATION AND LOWER OF THE COM |
|-------------------------------------|--|
| As a below nam | ed inventor, I hereby declare that: |
| This declaration | is of the following type: |
| [X] [] [] | original divisional continuation continuation-in-part |
| | INVENTORSHIP IDENTIFICATION |
| ومناما مساسية | ost office address and citizenship are as stated below next to my name. I believe I am the original ventor (if only one name is listed below) or an original, first and joint inventor (if plural names are the subject matter which is claimed and for which a patent is sought on the invention entitled: |
| | TITLE OF INVENTION |
| Low-Resistivit | ty Tungsten from High-Pressure Chemical Vapor Deposition Using Metal-Organic Precursors |
| | SPECIFICATION IDENTIFICATION |
| The specification | on of which: |
| X | is attached hereto was filed on, under Serial No, executed on even date herewith or [] Express Mail No.(as Serial No. not yet known) and was amended on (if applicable) |
| [] | was described and claimed in PCT International Application No filed o and as amended under PCT Article 19 on |
| | ACKNOWLEDGMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR |
| I hereby state t claims, as amer | hat I have reviewed and understand the contents of the above-identified specification, including the third deal by any amendment referred to above. |
| Code of Federa where there is | the duty to disclose all information I know to be material to patentability in accordance with Title 3 al Regulations, 1.56, and which is material to the examination of this application; namely, information a substantial likelihood that a reasonable Examiner would consider it important in deciding wheth plication to issue as a patent, and |
| [] | In compliance with this duty there is attached an Information Disclosure Statement in accordan |

PRIORITY CLAIM (35 U.S.C. §119)

with 37 CFR 1.98.

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| designat | ting at least one co a filing date before | ountry other than the Unithat of the application(s) | ited States of America of which priority is claim | filed by me on the same subject matter med. |
|---|---|---|---|---|
| | | applications have been filed | | |
| A. | Prior foreign/PC application, and | CT/provisional application any priority claims undo | on(s) filed within 12 r er 35 U.S.C. § 119 | mos. (6 mos. for design) prior to this |
| | Country/PCT | Application No | Date Filed | Priority Claimed Yes No Yes No |
| В. | All foreign app | lication(s), if any, filed | more than 12 mos. (| (6 mos for design) prior to this U.S. |
| | Country: Application No: Filing date: | | | |
| | | PRIORITY | CLAIM (35 U.S.C. §12 | 20) |
| internat subject manner informa likeliho issue a | tional application(s) matter of each of provided by the f ation that is mater ood that a reasonab | s) designating the United f the claims of this appli irst paragraph of Title 35 ial to the examination of occurred between the fi | States of America that cation is not disclosed, United States Code, this application (nameleder it important in deci | any United States application(s) or PCT at is/are listed below and, insofar as the in that/those prior application(s) in the 112, I acknowledge the duty to disclose y, information where there is substantial iding whether to allow the application to application(s) and the national or PCT |
| | | applications have been fiplications have been filed | | |
| | | = | Sta | |
| | Serial No. | Filing Date | Patented Pending ER OF ATTORNEY | <u>Abandoned</u> |
| | | | | |
| I hereb Patent | y appoint the follo and Trademark Of | owing attorneys and/or ag fice connected therewith: | ents to prosecute this a | pplication and transact all business in the |
| | Donald Lawren Michae Joseph | Sgarbossa Verplancken ice Edelman I B. Einschlag Bach nd Kam-On Kwong | Registration No. 25,6 Registration No. 33,2 Registration No. 25,2 Registration No. 29,2 Registration No. 37,7 Registration No. 37, | 217 226 301 771 |

Registration No. 35,412 Registration No. 25,436

James C. Wilson

Robert W. Mulcahy

Registration No. 44,713 Registration No. 35,423

Send correspondence to:

Direct telephone calls to:

Patent Counsel, MS/2061 Legal Affairs Dept. Applied Materials, Inc. POBox 450A Santa Clara, CA 95052 Benjamin Aaron Adler 713/270-5391

DECLARATION

| Full name of sole or fire | st inventor: Sean Michael Seutt | er |
|---------------------------------|--|--------------------------------|
| Inventor's signature: | | Date: |
| Residence: Post Office Address: | San Jose, CA 95133 629 Harrisburg Place San Jose, CA 95133 U.S.A. | Country of Citizenship: U.S.A. |
| Full name of second inv | ventor: Seshadri Ganguli | |
| Inventor's signature: | | Date: |
| Residence: Post Office Address: | Sunnyvale, CA 94086 713 Golden Oak Drive, #7 Sunnyvale, CA 94086 U.S.A. | Country of Citizenship: India |
| Full name of third inve | entor: Mei Chang | |
| Inventor's signature: | the Class | Date: 5/8/c/ |
| Residence: | Saratoga, CA 95070 | |
| Post Office Address: | 12881 Corte de Arguello Saratoga, CA 95070 | Control CCV analysis U.S.A |
| | U.S.A. | Country of Citizenship: U.S.A. |

| Inventor's signature: | | Date: |
|-------------------------------------|--|---|
| Residence: Post Office Address: | Palo Alto, CA 94306 783 Cereza Drive Palo Alto, CA 94306 U.S.A. | Country of Citizenship: People's Republic of China |
| | | |
| Full name of fifth inve | ntor: Ming Xi | |
| Full name of fifth inve | · · | Date: |
| | · · | Date: |
| Inventor's signature: | Milpitas, CA 95035 138 Beaumere Way | Date: |
| Inventor's signature: Residence: | Milpitas, CA 95035 | Date: Country of Citizenship: People's Republic of China |

| As a below nam | ed inventor, I hereby declare that: | | | | |
|------------------------------|--|--|--|--|--|
| This declaration | is of the following type: | | | | |
| [X] [] [] | original divisional continuation continuation-in-part | | | | |
| | INVENTORSHIP IDENTIFICATION | | | | |
| | post office address and citizenship are as stated below next to my name. I believe I am the original, eventor (if only one name is listed below) or an original, first and joint inventor (if plural names are the subject matter which is claimed and for which a patent is sought on the invention entitled: | | | | |
| | TITLE OF INVENTION | | | | |
| Low-Resistivi | ty Tungsten from High-Pressure Chemical Vapor Deposition Using Metal-Organic Precursors | | | | |
| SPECIFICATION IDENTIFICATION | | | | | |
| The specification | on of which: | | | | |
| [] | is attached hereto was filed on, under Serial No, executed on even date herewith; or [] Express Mail No.(as Serial No. not yet known) and was amended on (if applicable) was described and claimed in PCT International Application No filed on and as amended under PCT Article 19 on | | | | |
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| claims, as ame | ended by any amendment referred to above. | | | | |
| I acknowledge | the duty to disclose all information I know to be material to patentability in accordance with Title 37, | | | | |

Code of Federal Regulations, 1.56, and which is material to the examination of this application; namely, information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether

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| designa having | ating at least one country other than the United States of America filed by me on the same subject matter g a filing date before that of the application(s) of which priority is claimed. |
|--|--|
| | [X] No such applications have been filed.[] Such applications have been filed as follows: |
| Α. | Prior foreign/PCT/provisional application(s) filed within 12 mos. (6 mos. for design) prior to this application, and any priority claims under 35 U.S.C. § 119 |
| | Country/PCT Application No Date Filed Priority Claimed Yes No Yes No |
| В. | All foreign application(s), if any, filed more than 12 mos. (6 mos for design) prior to this U.S. application |
| | Country: Application No: Filing date: |
| | PRIORITY CLAIM (35 U.S.C. §120) |
| interr subje manr infor likeli | reby claim the benefit under Title 35, United States Code, § 120, of any United States application(s) or PCT national application(s) designating the United States of America that is/are listed below and, insofar as the ext matter of each of the claims of this application is not disclosed in that/those prior application(s) in the ner provided by the first paragraph of Title 35, United States Code, 112, I acknowledge the duty to disclose mation that is material to the examination of this application (namely, information where there is substantial ithood that a reasonable Examiner would consider it important in deciding whether to allow the application to e as a patent) which occurred between the filing date of the prior application(s) and the national or PCT mational filing date of this application. |
| | [X] No such applications have been filedSuch applications have been filed, as follows: |
| | Serial No. Filing Date Patented Pending Abandoned |
| | POWER OF ATTORNEY |
| I he Pate | ereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the ent and Trademark Office connected therewith: |
| | Pagistration No. 25.610 |

| Peter J. Sgarbossa Donald Verplancken Lawrence Edelman Michael B. Einschlag Joseph Bach Raymond Kam-On Kwong James C. Wilson Robert W. Mulcahy | Registration No. 25,610 Registration No. 33,217 Registration No. 25,226 Registration No. 29,301 Registration No. 37,771 Registration No. 37,165 Registration No. 35,412 Registration No. 25,436 |
|--|--|
| | - 2- |

Registration No. 44,713 Registration No. 35,423

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| Full name of sole or fire | st inventor: Sean Michael Seutter | |
|---|--|--------------------------------|
| Inventor's signature: | | Date: |
| Residence: Post Office Address: | San Jose, CA 95133 629 Harrisburg Place San Jose, CA 95133 U.S.A. | Country of Citizenship: U.S.A. |
| Full name of second in | ventor: Seshadri Ganguli | |
| Itorla gianature: | | Date: |
| Inventor's signature: Residence: Post Office Address: | Sunnyvale, CA 94086 713 Golden Oak Drive, #7 Sunnyvale, CA 94086 U.S.A. | Country of Citizenship: India |
| Full name of third inve | entor: Mei Chang | |
| Inventorio gianature: | | Date: |
| Residence: Post Office Address: | Saratoga, CA 95070 12881 Corte de Arguello Saratoga, CA 95070 U.S.A. | Country of Citizenship: U.S.A. |

| e: 5/7/01 enship: People's Republic of China |
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| enship: People's Republic of China |
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ACKNOWLEDGMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR

was described and claimed in PCT International Application No. ______ filed on

and as amended under PCT Article 19 on ______.

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| designa having | ating at le a filing d | east one cou late before th | ntry other than the Unat of the application(s) | ited States of America of which priority is claim | filed by me on the same subject matter med. |
|--|--|------------------------------------|---|---|---|
| | [X] | | oplications have been fi cations have been filed | | |
| A. | Prior foreign/PCT/provisional application(s) filed within 12 mos. (6 mos. for design) prior to th application, and any priority claims under 35 U.S.C. § 119 | | | nos. (6 mos. for design) prior to this | |
| | Count | ry/PCT | Application No | Date Filed | Priority Claimed Yes No Yes No |
| В. | B. All foreign application(s), if any, filed more than 12 mos. (6 mos for design) prior to this U.S application | | | | 6 mos for design) prior to this U.S. |
| | Countr Applica Filing o | ation No: | | | |
| | | | PRIORITY | CLAIM (35 U.S.C. §12 | 20) |
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| | | | | Sta | tus |
| | Serial | <u>No. I</u> | iling Date | Patented Pending | Abandoned |
| POWER OF ATTORNEY | | | | | |
| I hereb Patent | by appoir and Trad | nt the follow demark Offic | ing attorneys and/or age connected therewith: | gents to prosecute this a | pplication and transact all business in the |
| | | Lawrence Michael I Joseph Ba | erplancken Edelman 3. Einschlag | Registration No. 25,0 Registration No. 33,2 Registration No. 25,3 Registration No. 37,3 Registration No. 37,3 Registration No. 37, | 217 226 301 771 |

Registration No. 35,412 Registration No. 25,436

James C. Wilson

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DECLARATION

| Full name of sole or fir | st inventor: Sean Michael Seutter | |
|--------------------------|-----------------------------------|--|
| Inventor's signature: | | Date: |
| Residence: | San Jose, CA 95133 | |
| Post Office Address: | _ | |
| | San Jose, CA 95133 U.S.A. | Country of Citizenship: U.S.A. |
| | 0.S.A. | country of children, process |
| Full name of second in | ventor: Seshadri Ganguli | |
| Inventor's signature: | | Date: |
| Residence: | Sunnyvale, CA 94086 | |
| Post Office Address: | | |
| | Sunnyvale, CA 94086 | C. C |
| | U.S.A. | Country of Citizenship: India |
| Full name of third inve | entor: Mei Chang | |
| Inventor's signature: | | Date: |
| Residence: | Saratoga, CA 95070 | |
| Post Office Address: | 2 | |
| | Saratoga, CA 95070 | C to CC's analym U.S.A |
| | U.S.A. | Country of Citizenship: U.S.A. |

| Full name of fourth inv | ventor: Michael X. Yang | |
|------------------------------------|--|--|
| Inventor's signature: | | Date: |
| Residence: Post Office Address: | Palo Alto, CA 94306 783 Cereza Drive Palo Alto, CA 94306 | |
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